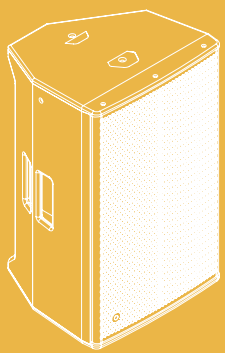
quest engineering

Qmotion

User Manual

MODEL: QM 350i



Contents

Safety Precautions 1

General Description. 3

Getting The Best From Your QM350i 4

Flying the QM350i 6

QM350i Specifications. 8

QM350i Reference Diagram. 9

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Safety Precautions

- Be sure to read the instructions in this section carefully before use.
- Make sure you observe the instructions in this manual as the conventions of safety symbols and messages are very important.
- We also recommend you keep this instruction manual handy for future reference.

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- Turn down the amplifier before switching on the amplifier. If there is no sound, check the speaker connections. Speakon connectors must be locked in place.
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The new generation neodymium high frequency transducer is matched to a rotatable asymmetrical wave guide that can be rotated through 270 degrees for horizontal, vertical or fold-back monitor installation.

The asymmetrical coverage allows the horn to achieve both long throw performance and wide angle close coverage without “hot zones” or adding to unnecessary room reflections that can degrade vocal intelligibility. The unit can be used in a stand alone configuration or as part of a system coupled with any Quest sub-bass system. When used in conjunction with these devices, the QM350i will form part of a high performance multi way audio system.

Installation

Temporary installation is possible with the 35mm floor stand mounting in the base of the enclosure. Fold-back installation can give extra uniform stage performance by rotating the horn flare to the “fold-back” position.

Five M 8 thread inserts are located on the top, sides and one under the QM350i enclosure.

These are intended to be used with the WB350i wall bracket.

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Two rigging accessories are available for the QM350i:

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Functional Design

The QM350i features an asymmetrical horizontal angle along one side which makes it suitable for use as a stage\foldback wedge when laid flat. The QM350i’s maneuverability is enhanced by four grip handles. The rotatable horn flare provides optimal performance in a horizontal installation or as a foldback wedge. (See page 6 for more information on rotating the horn flare).

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The QM350i is well suited to all professional applications. The high strength ply casing has been treated and designed to withstand demanding use while the heavy gauge power-coated steel grill ensures the driver and horn are always protected.

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Getting The Best From Your QM350i

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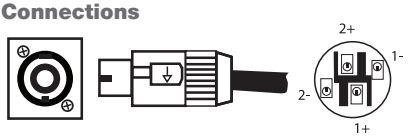

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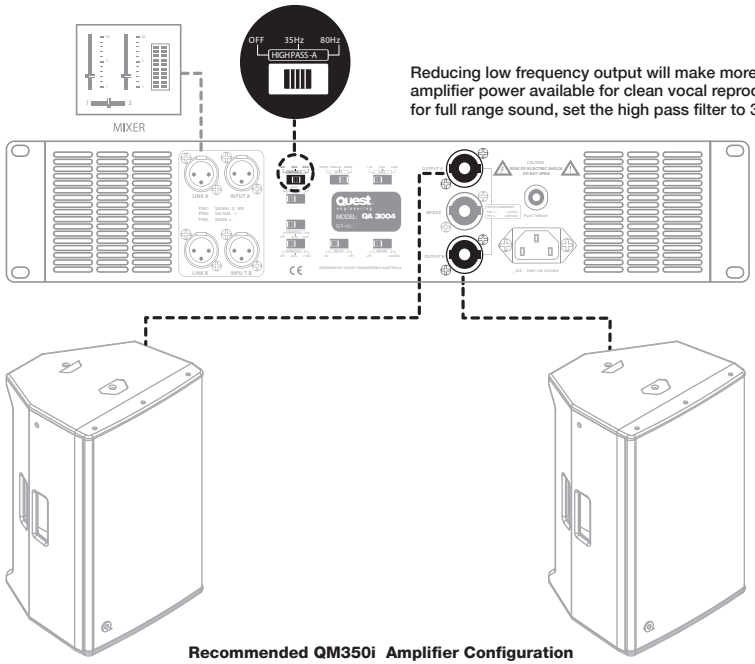

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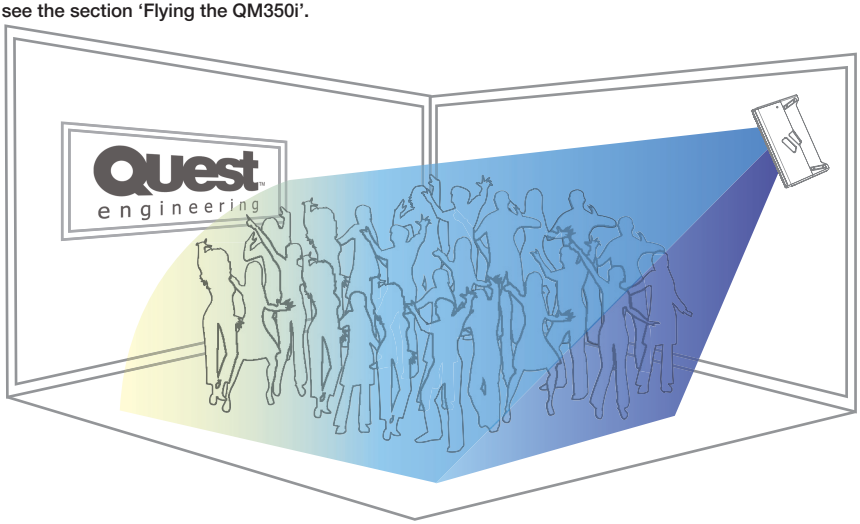
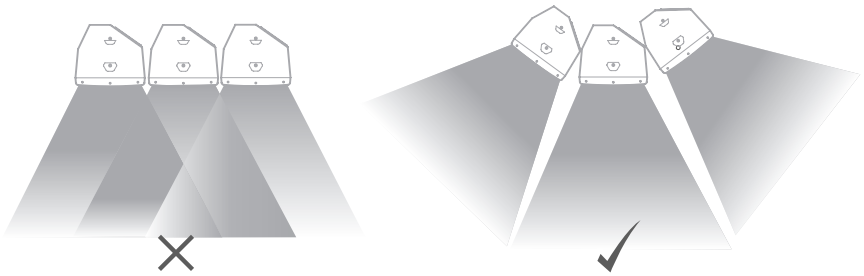


Ideal QM350i Flown Configuration

Flying the QM350i



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For horizontal installation rotate 45 degrees so the arrow is pointing at the floor side so as to have the “beaming” facility at the top of the horn.

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For stage foldback monitors the coverage must be wide when performers are close to the wedge and beam down the stage to minimize the spill off the stage that may interfere with the main PA.

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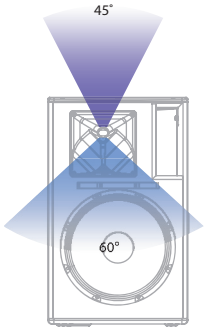
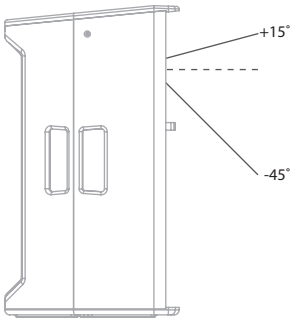
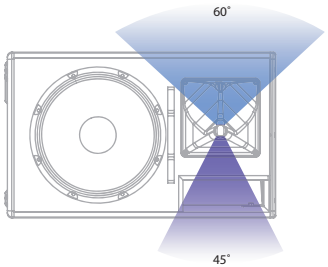


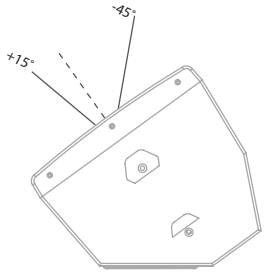
QM350i FOH Configuration (front)



QM350i FOH Configuration (side)



QM350i Foldback Configuration (front)



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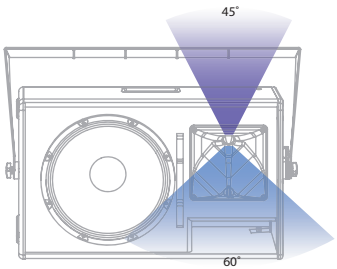
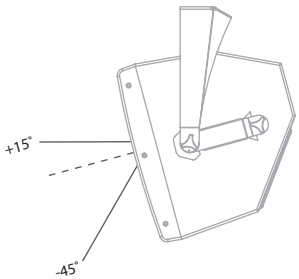
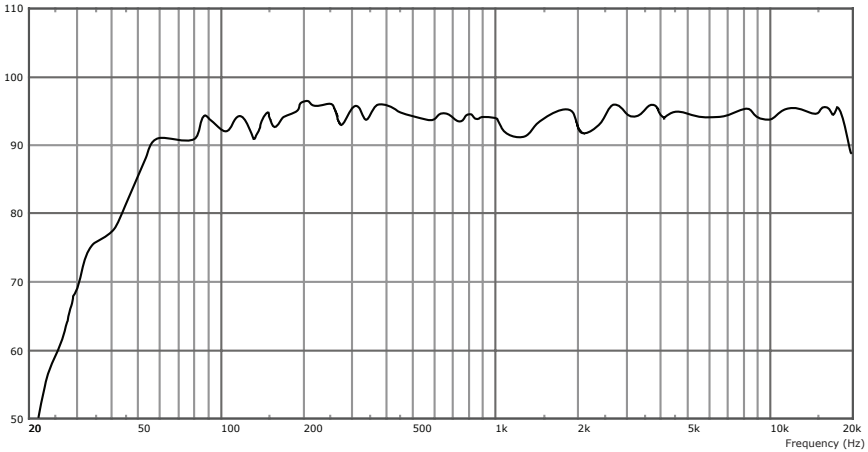


QM350i Horiztonal Configuration (front)



QM350i Horizontal Configuration (front)

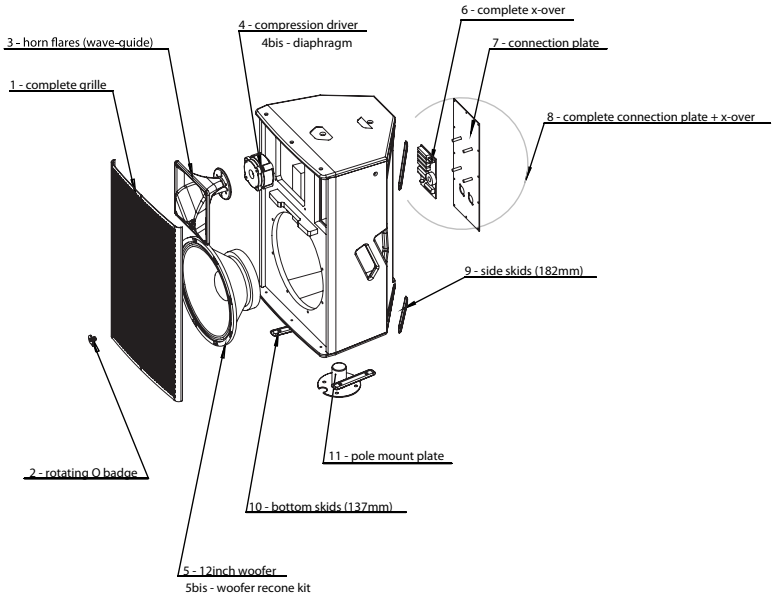
QM350i Specifications



—— QM350i - Frequency Response - 2.83V/1m

Technical Parameters	
Power Handling	400W RMS
Frequency Response	60-19kHz (+/-3dB)
Sensitivity	95dB @ 1kHz
Maximum SPL @ 1m	128dB
Impedance	8 ohms
Connections and Wiring	2 x Speakon NL4 - 1+/1- (2+/2- through)
Woofer	12” High Power Mid-Bass Woofer
Tweeter	1” Neodymium Compression Driver
Directivity	Asymmetric +15/-45 Vertical | 45/60 Horizontal
Dimensions	620x380x346.5 mm
Weight	19.0 kg Net

QM350i Reference Diagram


6 - complete x-over
4 - compression driver
4bis - diaphragm
3 - horn flares (wave-guide)
7 - connection plate
1 - complete grille
8 - complete connection plate + x-over
9 - side skids (182mm)
11 - pole mount plate
2 - rotating Q badge
10 - bottom skids (137mm)
5 - 12inch woofer
5bis - woofer recone kit

No.	Description	Spare Part
1	Complete Grill (with Acoustic Foam)	HGQM350
2	Rotating Q-badge (23mm) with Spring Loaded Pin	HQB25
3	Horn Flare (Wave Guide)	HWG350
4	1" Compression Driver	T1009
4bis	1" Compression Driver Diaphragm	RT1009
5	12" Woofer	T12001
5bis	12" Woofer Recone Kit	RT12001
6	Complete X-Over	AXQM350
7	Connection Plate	HCPQM350
8	Complete Connection Plate and Complete X-Over	ACPQM350
9	Long Skids (182mm)	HSK182
10	Medium Skids (137mm)	HSK137
11	Pole Mount Plate	HPP350

Register Your Product

Thank you for choosing Quest. Please take the time to complete your product registration card which is included with the packaging.
Registering your Quest Engineering product will:

- CONFIRM YOUR WARRANTY
- REGISTER YOUR PRODUCT
- PROTECT YOUR NEW PRODUCT

REGISTER ONLINE:
www.questaudio.net/registration

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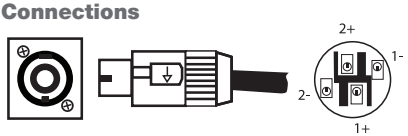

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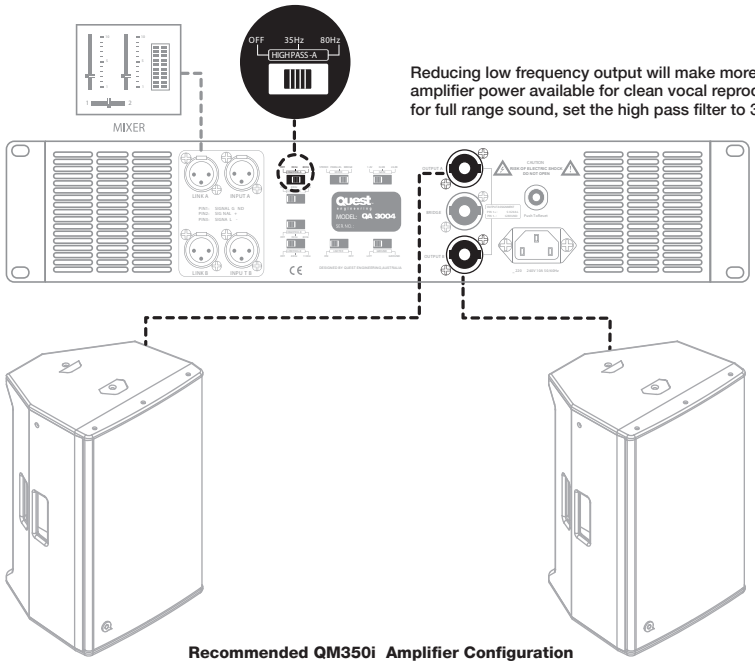

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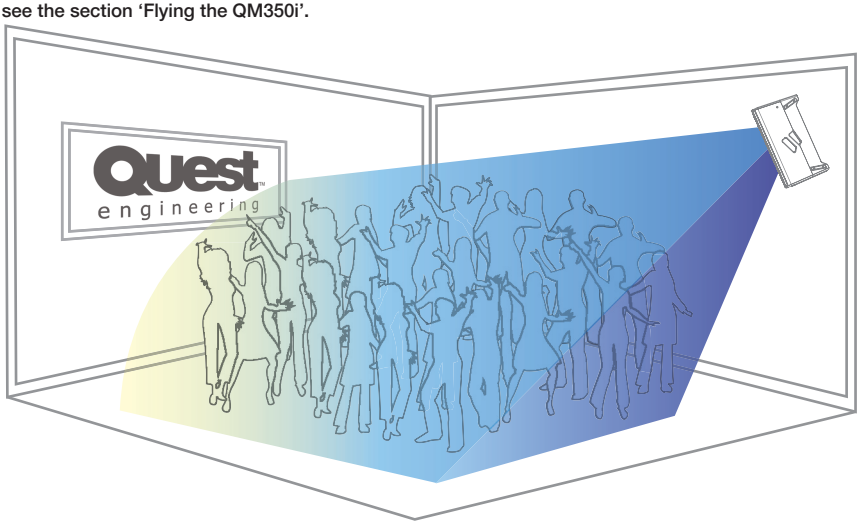

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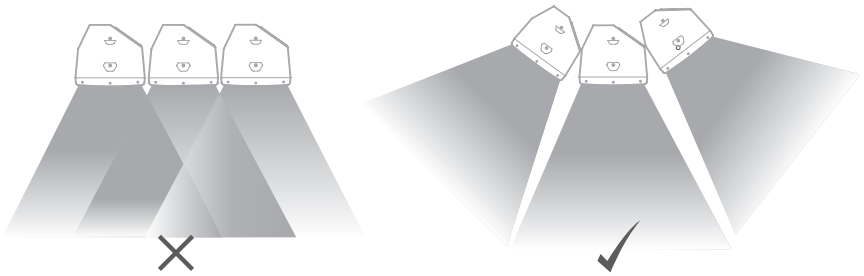
Flying the QM350i



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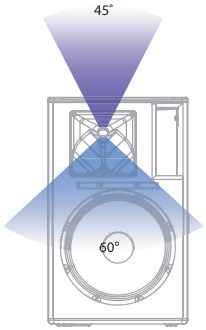

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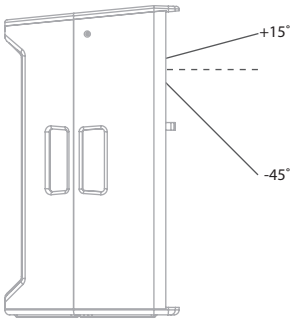

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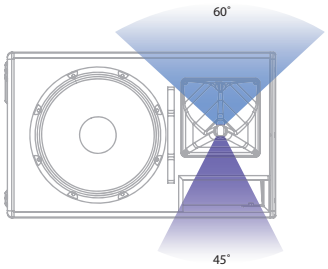
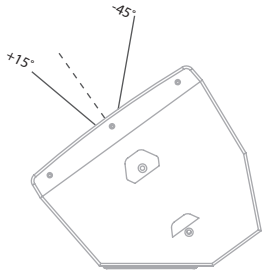
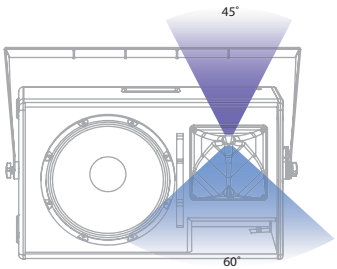


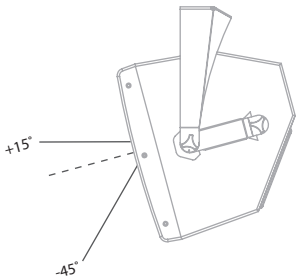
QM350i Foldback Configuration (front)



QM350i Foldback Configuration (side)

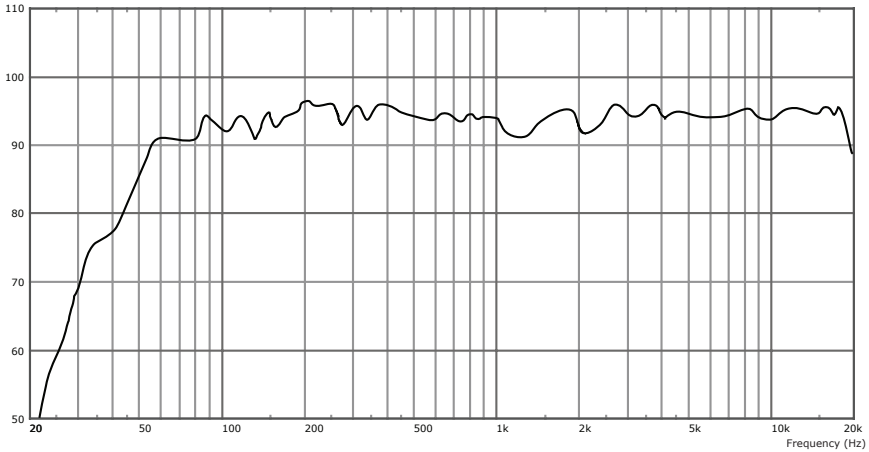


QM350i Horiztonal Configuration (front)



QM350i Horizontal Configuration (front)

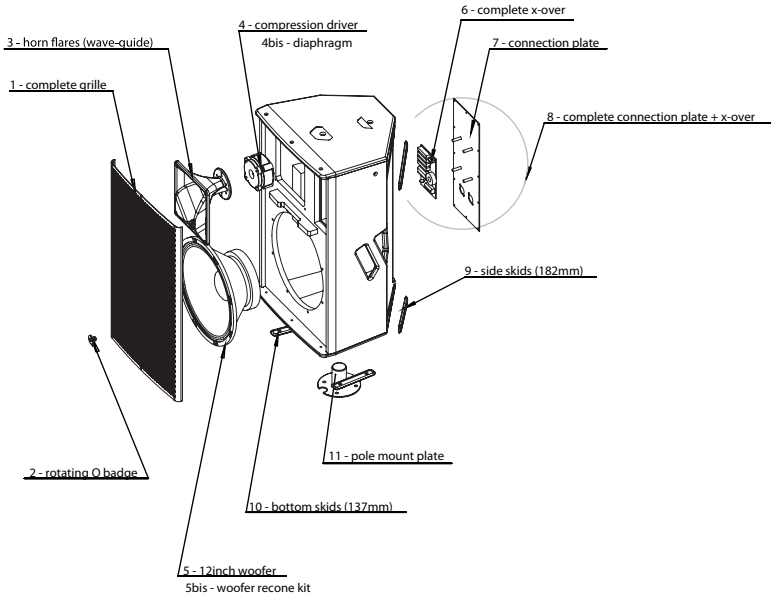
QM350i Specifications



—— QM350i - Frequency Response - 2.83V/1m

Technical Parameters	
Power Handling	400W RMS
Frequency Response	60-19kHz (+/-3dB)
Sensitivity	95dB @ 1kHz
Maximum SPL @ 1m	128dB
Impedance	8 ohms
Connections and Wiring	2 x Speakon NL4 - 1+/1- (2+/2- through)
Woofer	12” High Power Mid-Bass Woofer
Tweeter	1” Neodymium Compression Driver
Directivity	Asymmetric +15/-45 Vertical | 45/60 Horizontal
Dimensions	620x380x346.5 mm
Weight	19.0 kg Net

QM350i Reference Diagram


3 - horn flares (wave-guide)
4 - compression driver
4bis - diaphragm
6 - complete x-over
7 - connection plate
1 - complete grille
8 - complete connection plate + x-over
9 - side skids (182mm)
2 - rotating Q badge
11 - pole mount plate
10 - bottom skids (137mm)
5 - 12inch woofer
5bis - woofer recone kit

No.	Description	Spare Part
1	Complete Grill (with Acoustic Foam)	HGQM350
2	Rotating Q-badge (23mm) with Spring Loaded Pin	HQB25
3	Horn Flare (Wave Guide)	HWG350
4	1" Compression Driver	T1009
4bis	1" Compression Driver Diaphragm	RT1009
5	12" Woofer	T12001
5bis	12" Woofer Recone Kit	RT12001
6	Complete X-Over	AXQM350
7	Connection Plate	HCPQM350
8	Complete Connection Plate and Complete X-Over	ACPQM350
9	Long Skids (182mm)	HSK182
10	Medium Skids (137mm)	HSK137
11	Pole Mount Plate	HPP350